

6. The diffusion cell as defined in Claim 3 wherein:
said quick release clamping apparatus comprising a U-shaped clamp assembly which has an open cavity, said main housing to be located within said open cavity with one plate being mounted on said main housing and the remaining said plate being mounted against said cap, said one plate and said remaining plate being spring biased toward each other when installed on said main housing applying a continuous bias tending to keep said donor housing in tight connection with said main housing.

7. A diffusion cell comprising:
a main housing having a receptor chamber, said receptor chamber having an open top and a closed bottom, said receptor chamber adapted to contain a receptor liquid in sufficient quantity to connect with said open top, a receptor liquid refilling port connecting with said receptor chamber directly adjacent said closed bottom, a sampling port connecting with said receptor chamber intermediate said open top and closed bottom but nearer said open top;

a thin membrane mounted on said housing extending across said open top effectively closing such;

a donor housing having a donor chamber connecting with said membrane, a media to be supplied to said donor chamber and in contact with said membrane; and

said sampling port including a capillary tube, the function of said capillary tube to minimize the residual volume of